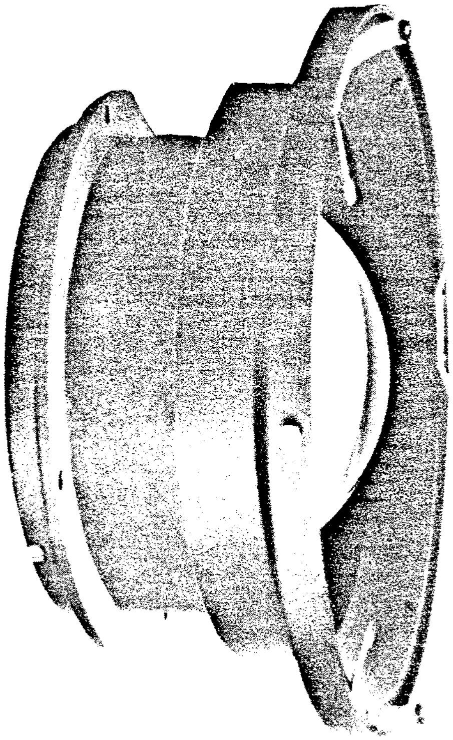
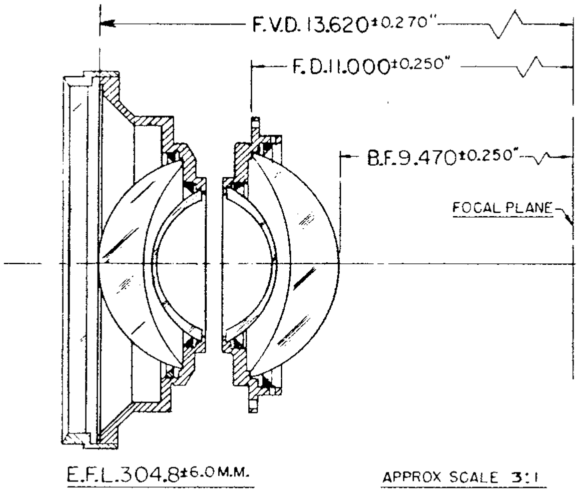
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL–STD–150A) Type I Aerial Reconnaissance		NAME	
FOCAL LENGTH 12 in.	RELATIVE APERTURE f/6.3	FORMAT 9 in. x 18 in.	MANUFACTURER Bausch & Lomb, Inc.
STOCK NO. Bausch & Lomb P/N 51-90-21-002	SPECIFICATION NO.	STATUS	

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 12 in. (304.8 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 9.47 in. (240.5 mm)	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 13.620 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 11.0 in.	LENS CELL DIAMETER *(Maximum)* 5.3 in.
SEMI–FIELD ANGLE 40°	OVERALL LENGTH 4.6 in.
RELATIVE APERTURE f/6.3	WEIGHT

REMARKS:

Used on the following aircraft cameras: K-38, KA-1, CA-13B

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
12 in.	f/6.3	9 in. x 18 in.	Bausch & Lomb, Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	10	20	30	35	40												

FILM Super X TARGET CONTRAST High FILTER W-12

RADIAL	29	25	19	18	15	11												
TANGENTIAL	29	22	16	14	12	9												

AWAR 17 L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

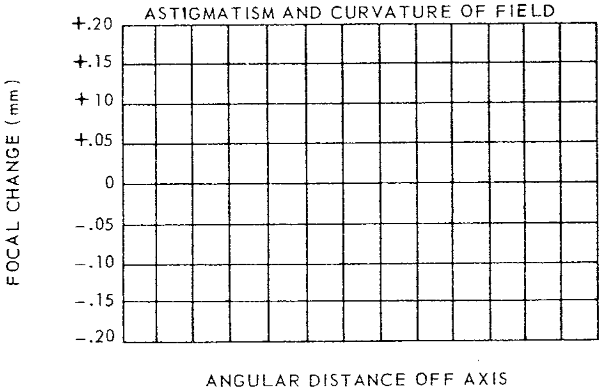
RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

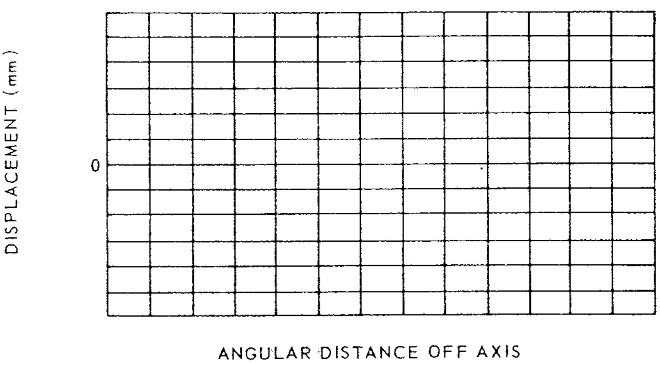
VISUAL ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

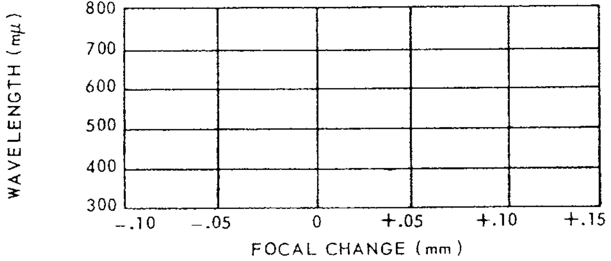
ASTIGMATISM AND CURVATURE OF FIELD



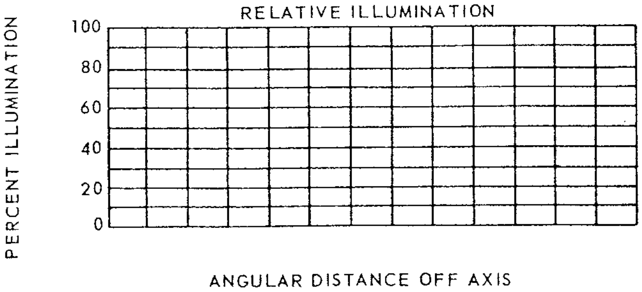
DISTORTION



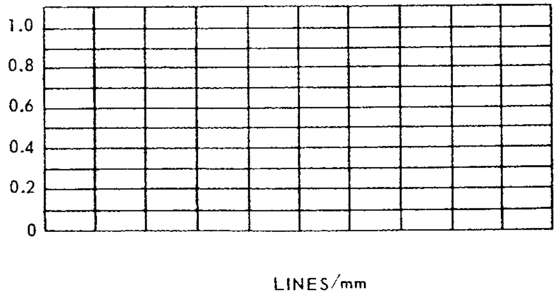
LONGITUDINAL CHROMATIC ABERRATION



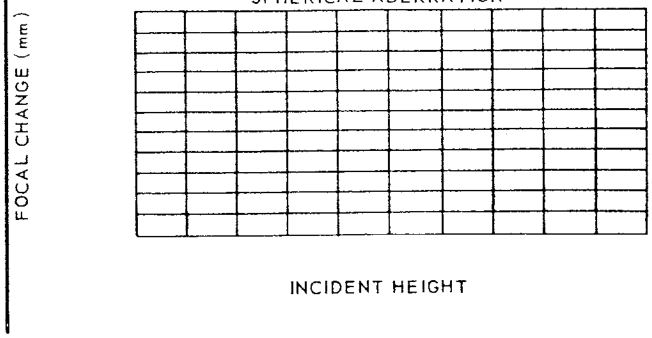
RELATIVE ILLUMINATION



FREQUENCY RESPONSE



SPHERICAL ABERRATION



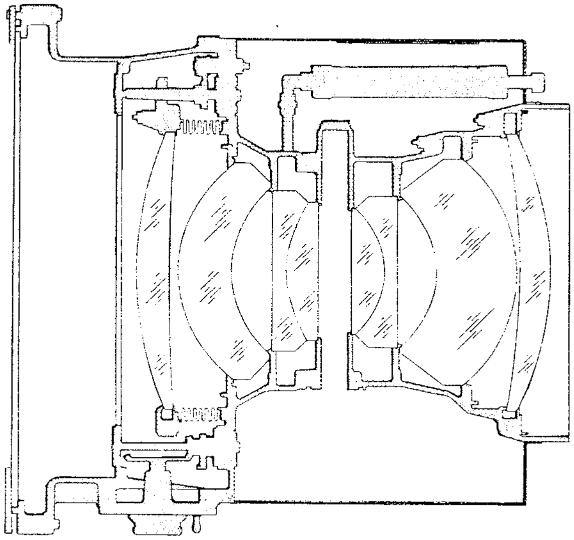
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Simplified Night Lens (8 Element)

FOCAL LENGTH 24 in.	RELATIVE APERTURE f/3.5	FORMAT 9 in. x 18 in.	MANUFACTURER Perkin-Elmer Corp.

STOCK NO. Perkin-Elmer P/N 090-0007	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 24 in. (609.6 mm)	TRANSMITTANCE 85%
BACK FOCAL DISTANCE 14.5 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 10 in.	LENS CELL DIAMETER *(Maximum)* 21.6 in.
SEMI-FIELD ANGLE 22.5°	OVERALL LENGTH 20.1 in.
RELATIVE APERTURE f/3.5	WEIGHT 125 lbs

REMARKS:

Used on the following aircraft cameras: K-36

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
24 in.	f/3.5	9 in. x 18 in.	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	10	20	22														

FILM ____ TARGET CONTRAST ____ FILTER ____

AVERAGE RADIAL AND TANGENTIAL	25	20	15	10														

AWAR ____ L/mm

FILM ____ TARGET CONTRAST ____ FILTER ____

AVERAGE RADIAL AND TANGENTIAL																		

AWAR ____ L/mm

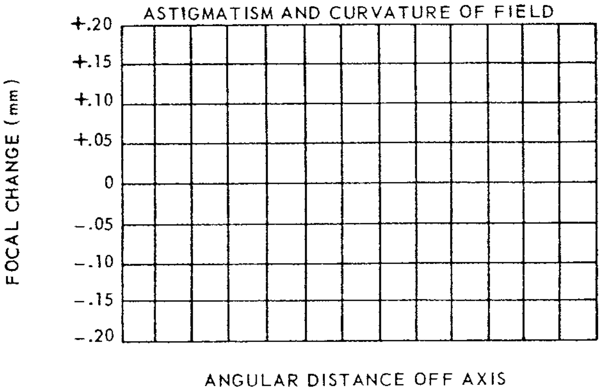
FILM ____ TARGET CONTRAST ____ FILTER ____

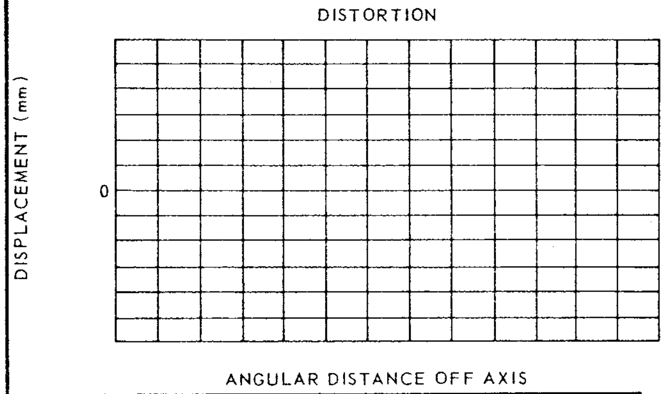
AVERAGE RADIAL AND TANGENTIAL																		

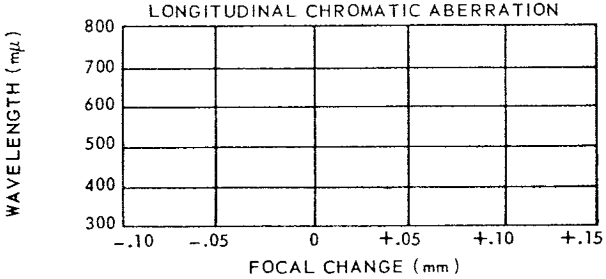
AWAR ____ L/mm

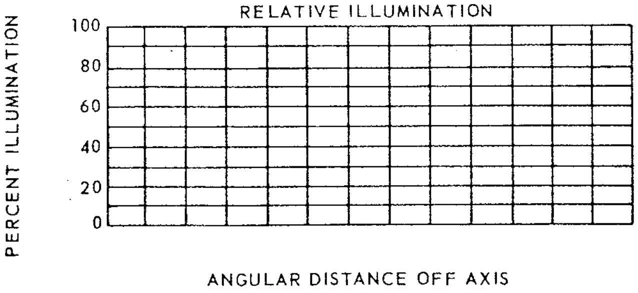
VISUAL ____ TARGET CONTRAST ____ FILTER ____

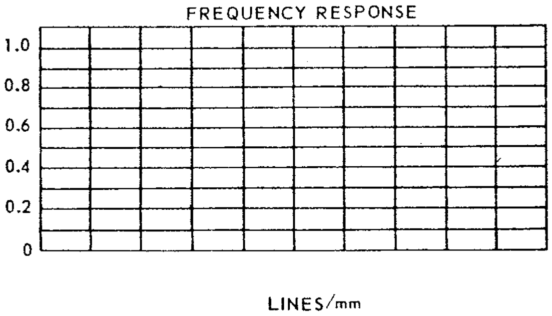
RADIAL																		
TANGENTIAL																		

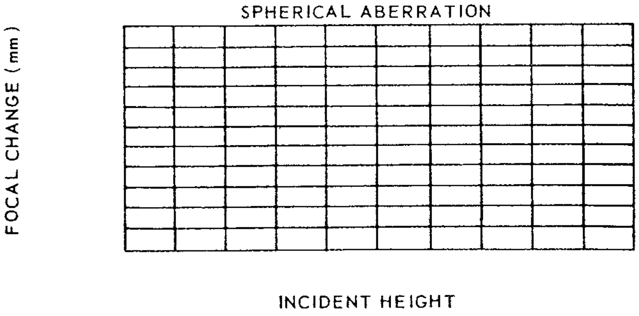












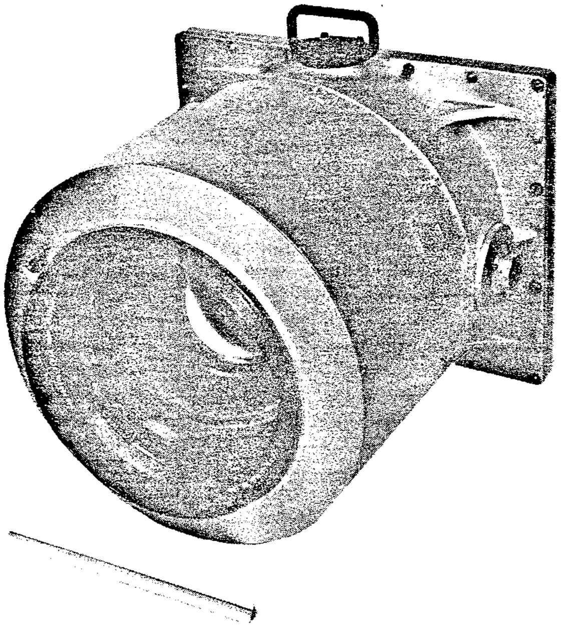
LENS DATA INFORMATION SHEET *(Reference MIL—STD—150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

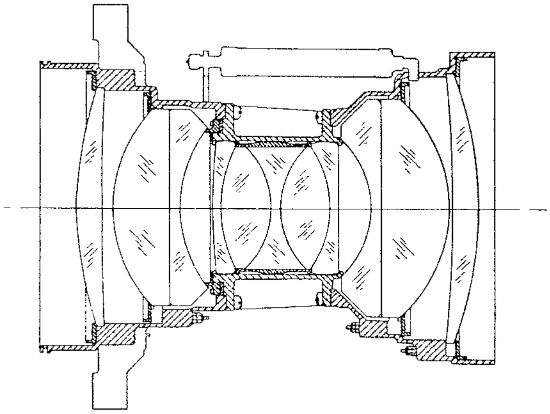
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Apochromat - 11 Element - (Baker)

FOCAL LENGTH 24 in.	RELATIVE APERTURE f/3.5	FORMAT 9 in. x 18 in.	MANUFACTURER Perkin-Elmer Corp.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 24 in. (609.6 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE	COLOR CORRECTION Visible
FRONT VERTEX BACK FOCAL DISTANCE	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 10 in.	LENS CELL DIAMETER *(Maximum)* 14.25 in.
SEMI-FIELD ANGLE 22.5°	OVERALL LENGTH 20 in.
RELATIVE APERTURE f/3.5	WEIGHT

REMARKS:

Used on the following aircraft cameras: K-36

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
24 in.	f/3.5	9 in. x 18 in.	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	22.5												

FILM Infrared TARGET CONTRAST ______ FILTER ______

RADIAL	27	27	25	21	16	10												
TANGENTIAL	27	28	23	18	15	11												

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

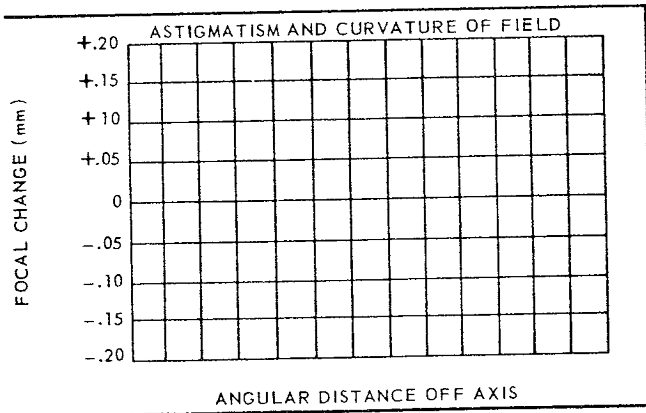
FILM ______ TARGET CONTRAST ______ FILTER ______

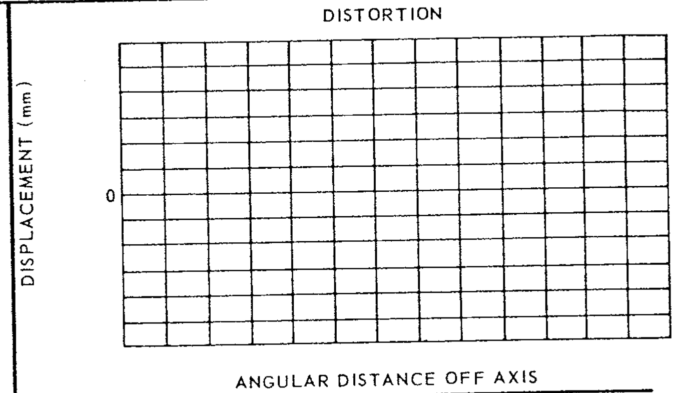
RADIAL																		
TANGENTIAL																		

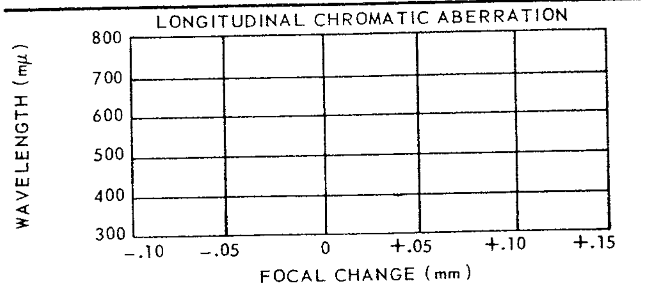
AWAR ______ L/mm

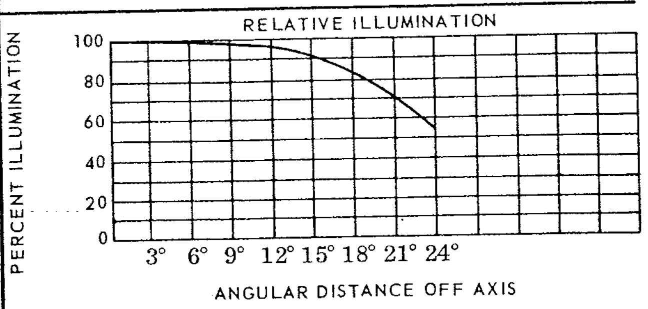
VISUAL ______ TARGET CONTRAST ______ FILTER ______

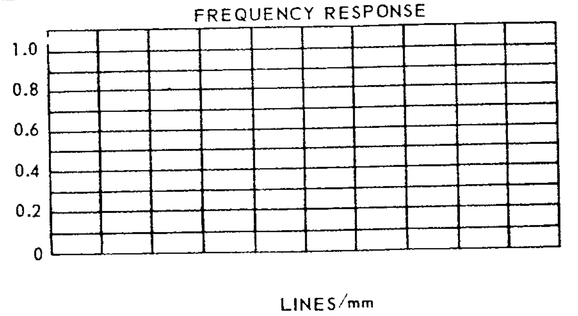
RADIAL																		
TANGENTIAL																		

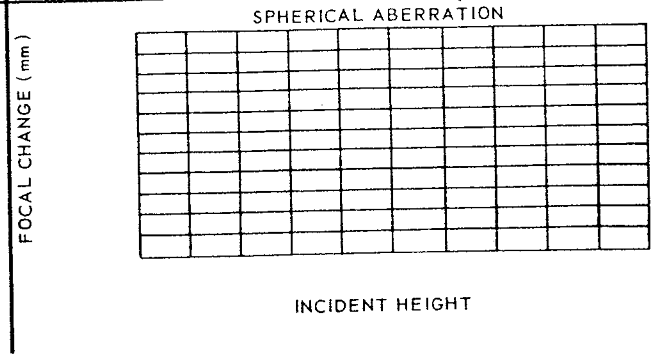












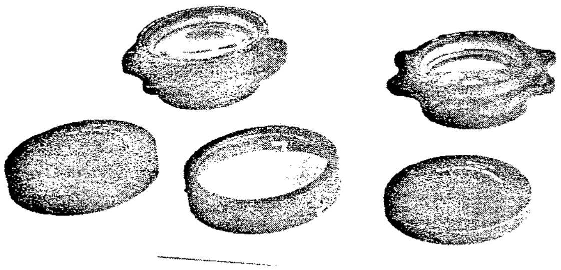
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL–STD–150A) Type I Aerial Reconnaissance	NAME Paxar/Delta

FOCAL LENGTH 24 in.	RELATIVE APERTURE f/4.5	FORMAT 9 in. x 18 in.	MANUFACTURER Pacific Optical Corp.

STOCK NO. Pacific Optical P/N 30665	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 24 in. (603 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 18.673 in.	COLOR CORRECTION 6000-8000Å
FRONT VERTEX BACK FOCAL DISTANCE 28.473 in.	DISTORTION *(Maximum)* 2.5 mm
FLANGE FOCAL DISTANCE 21.245 in.	LENS CELL DIAMETER *(Maximum)*
SEMI-FIELD ANGLE 22.5°	OVERALL LENGTH 8.75 in.
RELATIVE APERTURE f/4.5	WEIGHT 34 lbs.

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
24 in.	f/4.5	9 in. x 18 in.	Pacific Optical Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	22.5												

FILM Super X TARGET CONTRAST High FILTER W-12

RADIAL	45	34	21	20	19	8												
TANGENTIAL	40	21	19	19	13	6												

AWAR 21 L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

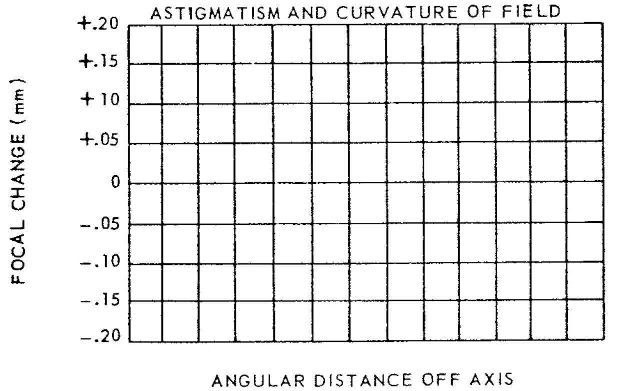
FILM ______ TARGET CONTRAST ______ FILTER ______

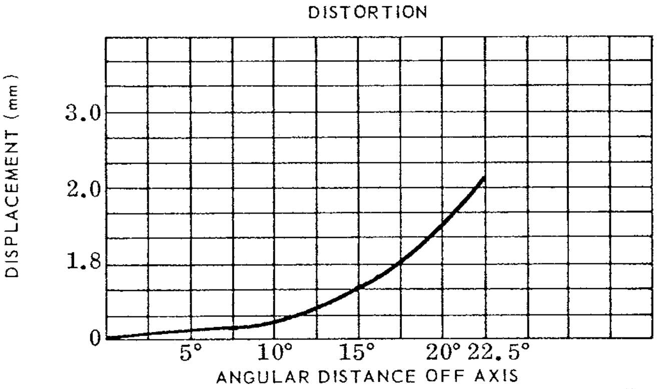
RADIAL																		
TANGENTIAL																		

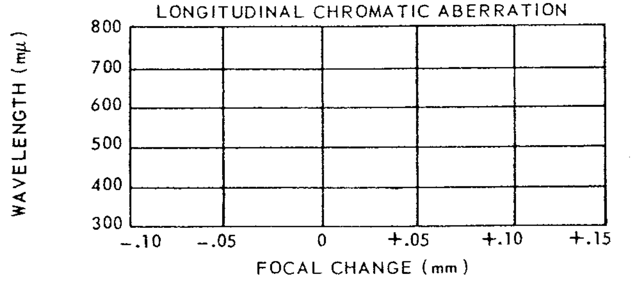
AWAR ______ L/mm

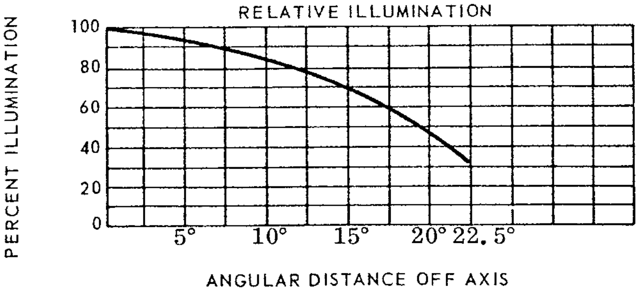
VISUAL ______ TARGET CONTRAST ______ FILTER ______

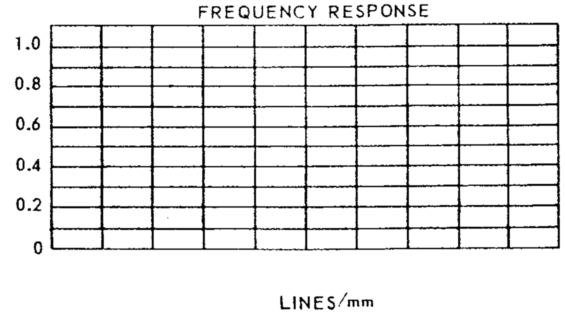
RADIAL																		
TANGENTIAL																		

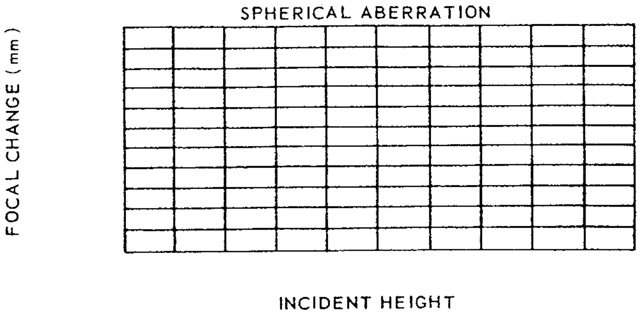












LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 24 in.	RELATIVE APERTURE f/6.0	FORMAT 9 in. x 18 in.	MANUFACTURER Bell & Howell Co.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION

CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 24.048 in. (610.82 mm)	TRANSMITTANCE 87%
BACK FOCAL DISTANCE 20.644 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 27.464 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 22.328 in.	LENS CELL DIAMETER *(Maximum)*
SEMI-FIELD ANGLE 20.5°	OVERALL LENGTH
RELATIVE APERTURE f/6.0	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
24 in.	f/6.0	9 in. x 18 in.	Bell & Howell Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	22.5												

FILM Super XX TARGET CONTRAST ______ FILTER W-12

RADIAL	45	45	36	28	24	9												
TANGENTIAL	42	42	41	35	26	16												

AWAR 35 L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

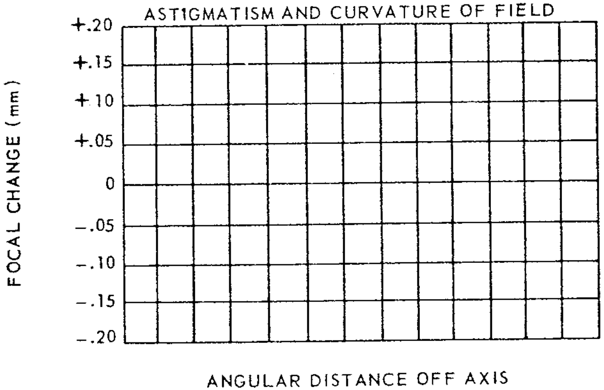
FILM ______ TARGET CONTRAST ______ FILTER ______

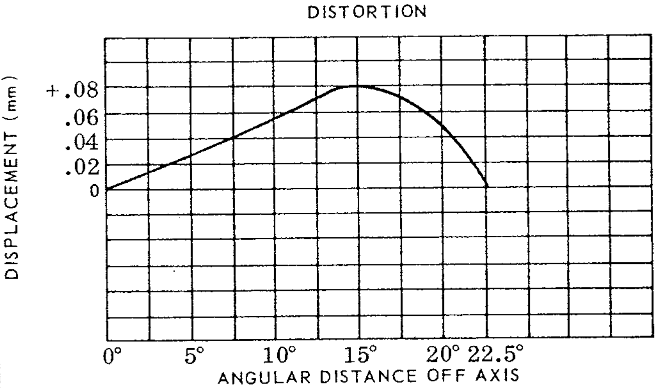
RADIAL																		
TANGENTIAL																		

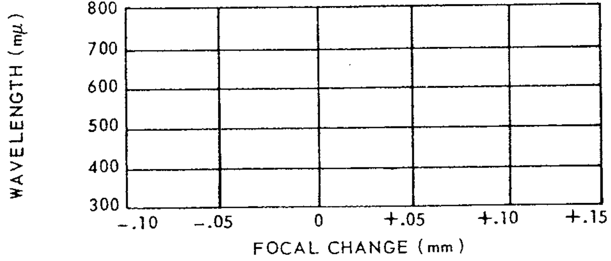
AWAR ______ L/mm

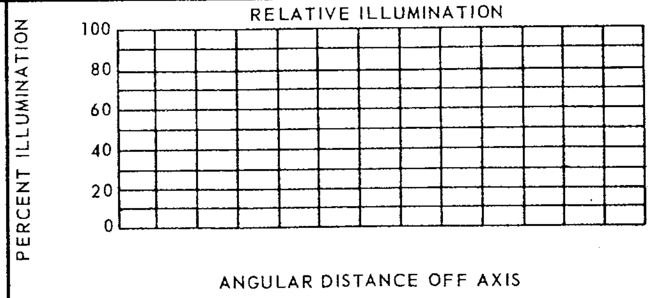
VISUAL ______ TARGET CONTRAST ______ FILTER ______

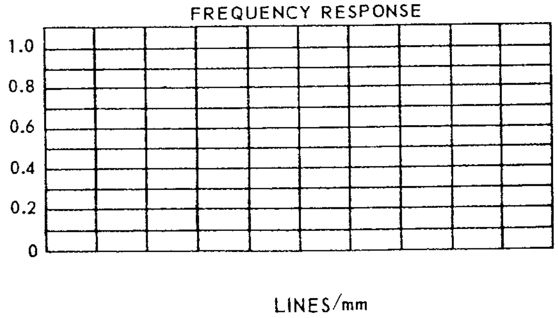
RADIAL																		
TANGENTIAL																		

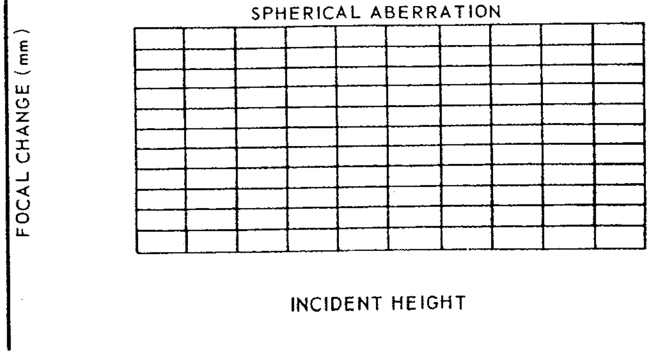

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE

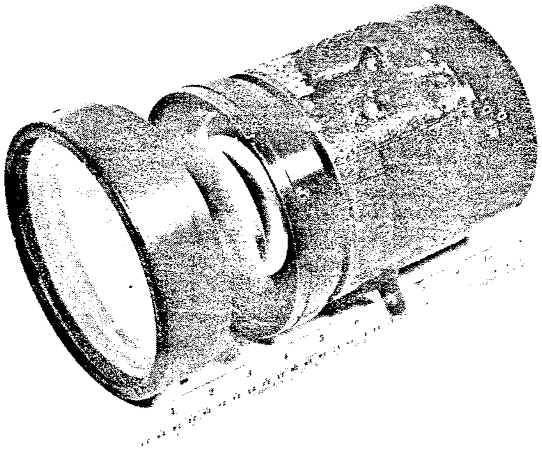

SPHERICAL ABERRATION

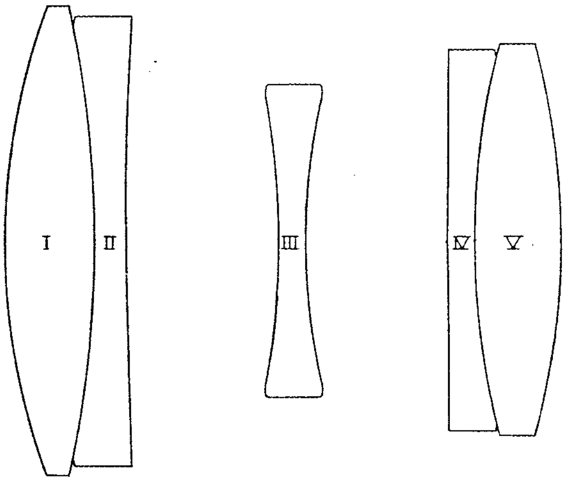
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Paxar/Delta	
FOCAL LENGTH 24 in.	RELATIVE APERTURE f/6.0	FORMAT 9 in. x 18 in.	MANUFACTURER Pacific Optical Corp.

STOCK NO. Pacific Optical P/N 30850	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 24 in. (609.6 mm)	TRANSMITTANCE 70%
BACK FOCAL DISTANCE 20.89 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 27.89 in.	DISTORTION *(Maximum)* .54 mm
FLANGE FOCAL DISTANCE 22. 139 in.	LENS CELL DIAMETER *(Maximum)* 6.0 in.
SEMI-FIELD ANGLE 22.7°	OVERALL LENGTH 7 in.
RELATIVE APERTURE f/6.0	WEIGHT

REMARKS:

Used on the following aircraft cameras: KA-1

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
24 in.	f/6.0	9 in. x 18 in.	Pacific Optical Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	22.5												

FILM Super XX TARGET CONTRAST High FILTER ____

RADIAL	40	38	33	26	36	19												
TANGENTIAL	40	36	37	28	28	26												

AWAR 33 L/mm

FILM ____ TARGET CONTRAST ____ FILTER ____

RADIAL																		
TANGENTIAL																		

AWAR ____ L/mm

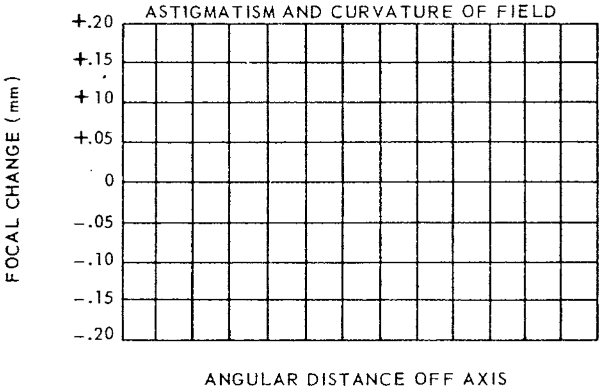
FILM ____ TARGET CONTRAST ____ FILTER ____

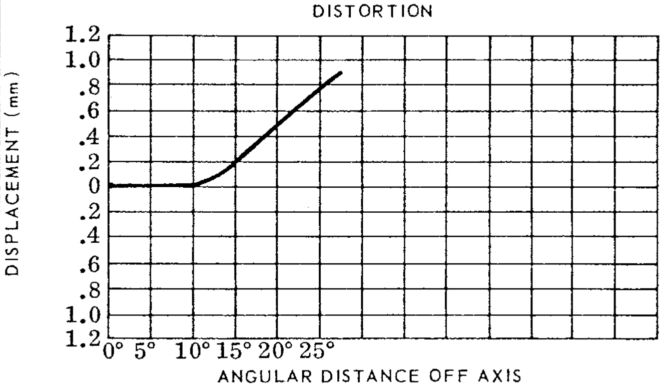
RADIAL																		
TANGENTIAL																		

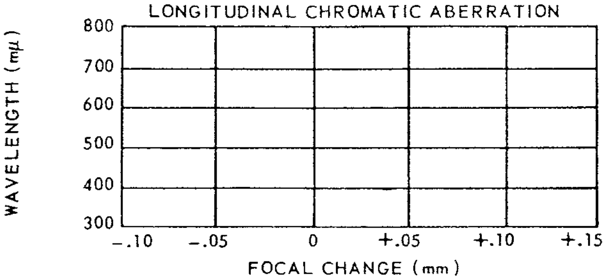
AWAR ____ L/mm

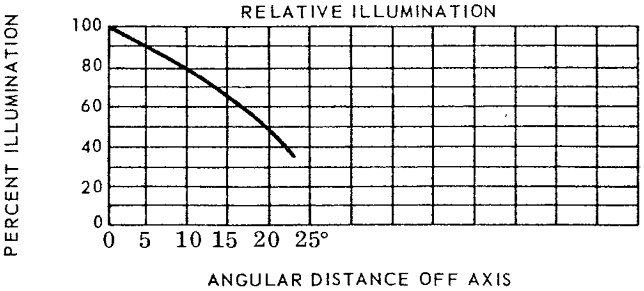
VISUAL ____ TARGET CONTRAST ____ FILTER ____

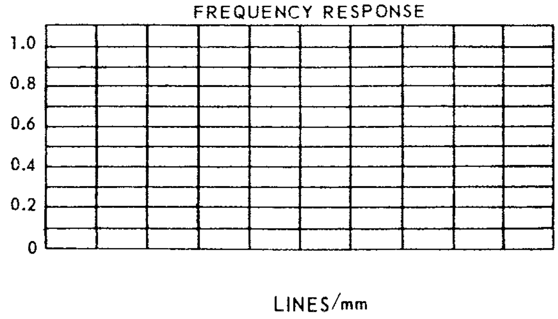
RADIAL																		
TANGENTIAL																		

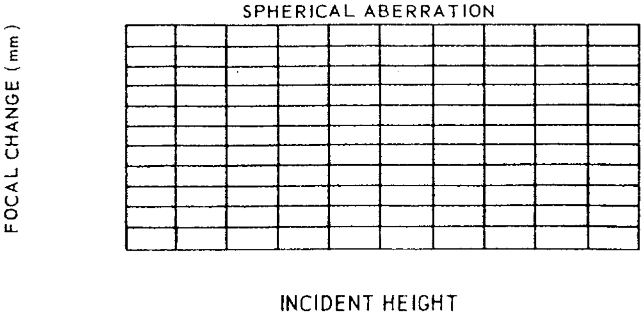












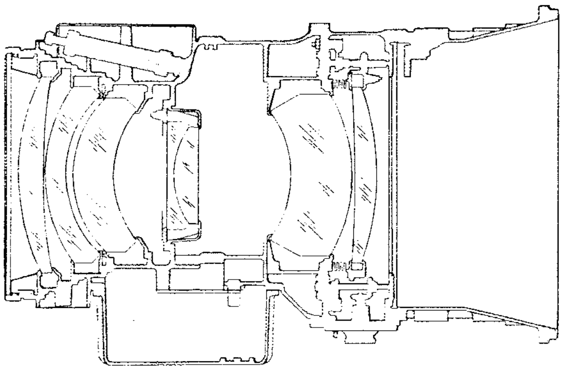
LENS DATA INFORMATION SHEET

(Reference MIL-STD-150A for definition of terms and methods of measurement)

DATE
15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME	
FOCAL LENGTH 36 in.	RELATIVE APERTURE f/4.0	FORMAT 9 in. x 18 in.	MANUFACTURER Perkin-Elmer Corp.
STOCK NO. Perkin-Elmer P/N 120-0004	SPECIFICATION NO.	STATUS	

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 36 in. (914.4 mm)	TRANSMITTANCE 62%
BACK FOCAL DISTANCE 20.75 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 10 in.	LENS CELL DIAMETER *(Maximum)* 22.375 in.
SEMI-FIELD ANGLE 15°	OVERALL LENGTH 33.875 in.
RELATIVE APERTURE f/4.0	WEIGHT 257 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
36 in.	f/4.0	9 in. x 18 in.	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	12.5	15													

FILM ________ TARGET CONTRAST ________ FILTER ________

AVERAGE RADIAL AND TANGENTIAL	30	30	25	20	22													

AWAR 22 L/mm

FILM ________ TARGET CONTRAST ________ FILTER ________

AVERAGE RADIAL AND TANGENTIAL																		

AWAR ________ L/mm

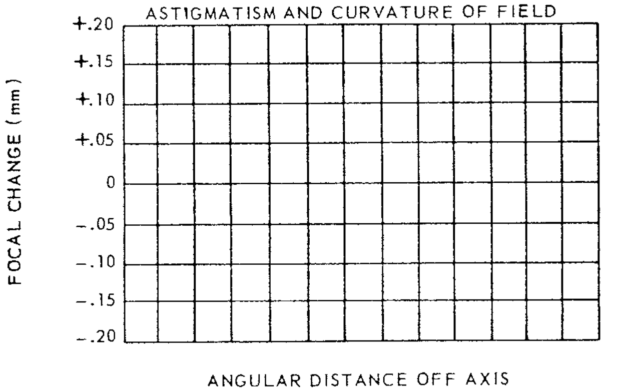
FILM ________ TARGET CONTRAST ________ FILTER ________

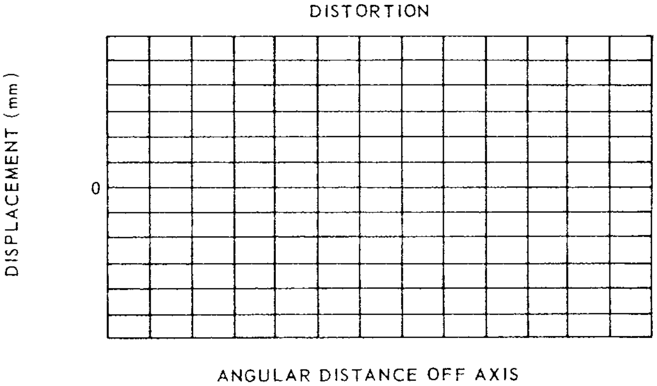
AVERAGE RADIAL AND TANGENTIAL																		

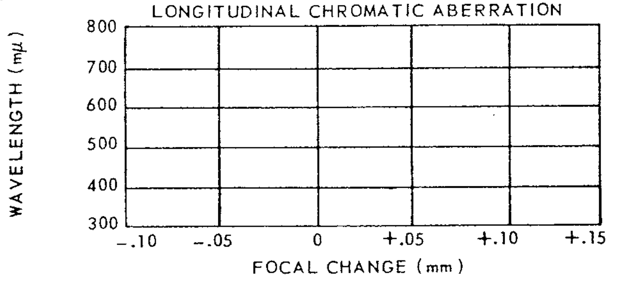
AWAR ________ L/mm

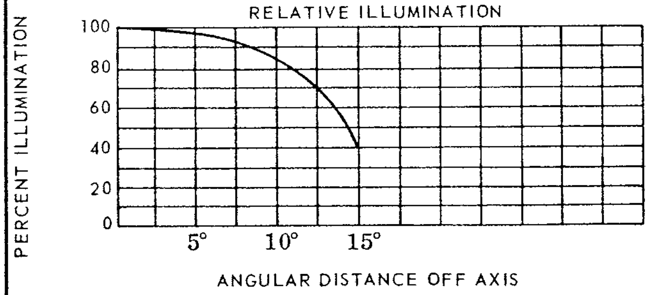
VISUAL ________ TARGET CONTRAST ________ FILTER ________

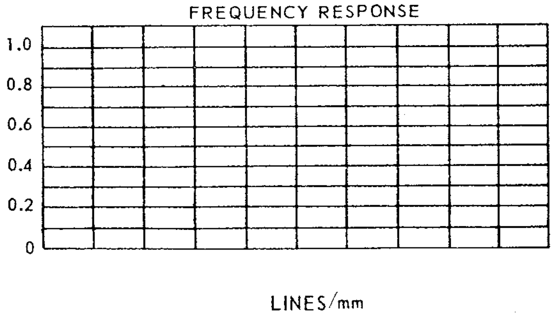
RADIAL																		
TANGENTIAL																		

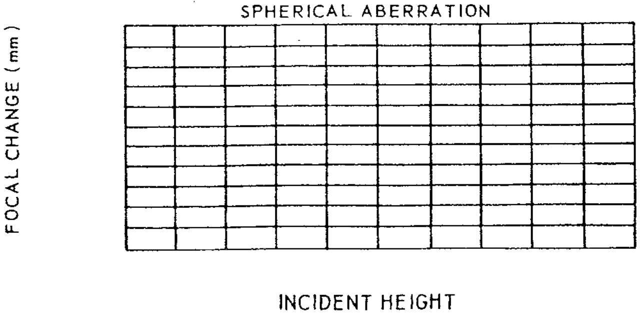

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

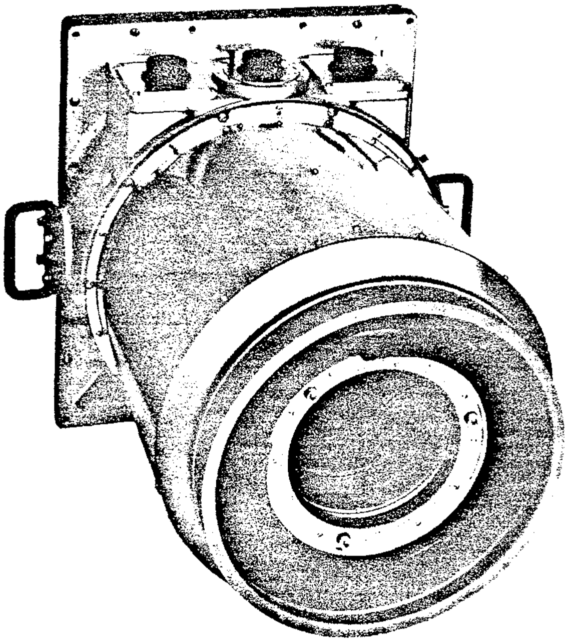
LENS DATA INFORMATION SHEET *(Reference MIL-STD-150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

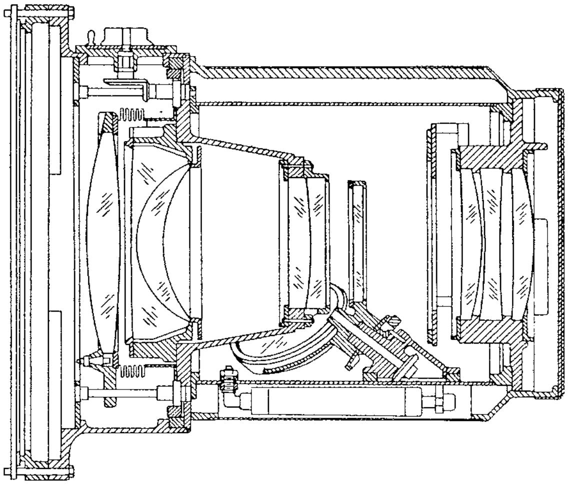
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Telephoto (Baker)

FOCAL LENGTH 36 in.	RELATIVE APERTURE f/5.6	FORMAT 9 in. x 18 in.	MANUFACTURER Perkin-Elmer Corp.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 36 in. (914.4 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 13.25 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 32.265 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 10 in.	LENS CELL DIAMETER *(Maximum)*
SEMI-FIELD ANGLE 15°	OVERALL LENGTH 20.50 in.
RELATIVE APERTURE f/5.6	WEIGHT 36.63 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
36 in.	f/5.6	9 in. x 18 in.	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	3	6	9	12	15												

FILM Super XX TARGET CONTRAST ______ FILTER W-12

AVERAGE RADIAL AND TANGENTIAL	35	35	26	26	19	16												

AWAR 24 L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

AVERAGE RADIAL AND TANGENTIAL																		

AWAR ______ L/mm

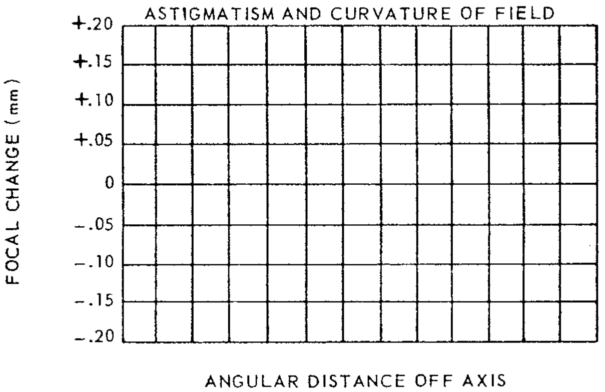
FILM ______ TARGET CONTRAST ______ FILTER ______

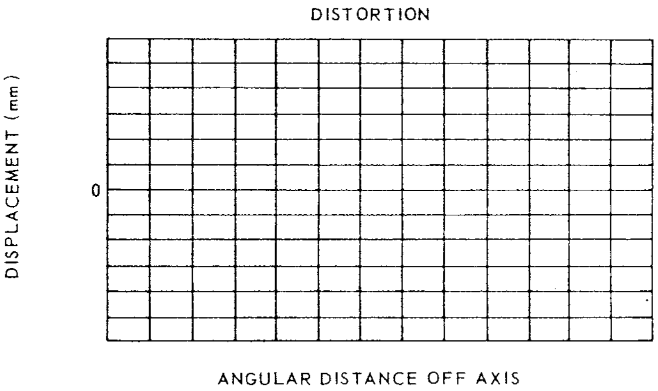
AVERAGE RADIAL AND TANGENTIAL																		

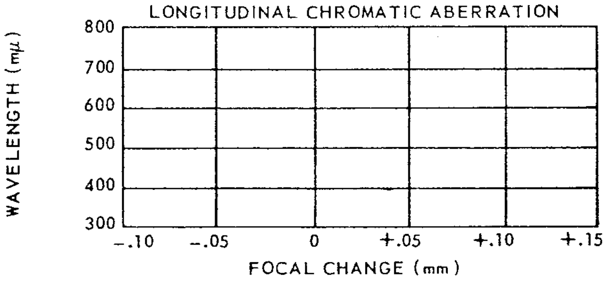
AWAR ______ L/mm

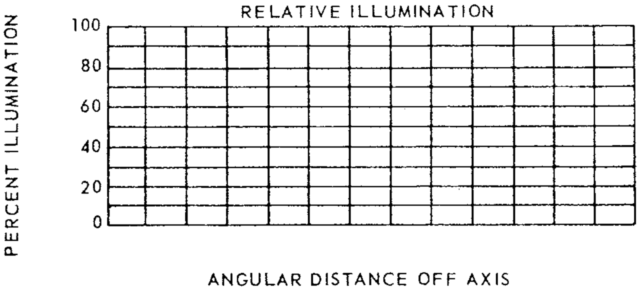
VISUAL ______ TARGET CONTRAST ______ FILTER ______

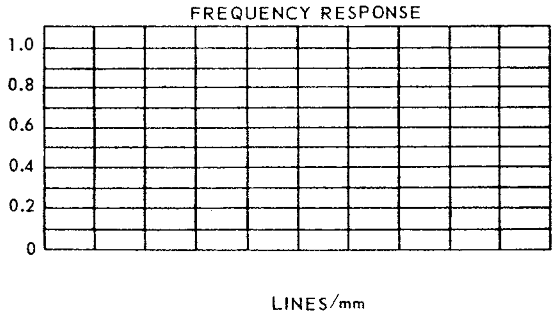
RADIAL																		
TANGENTIAL																		

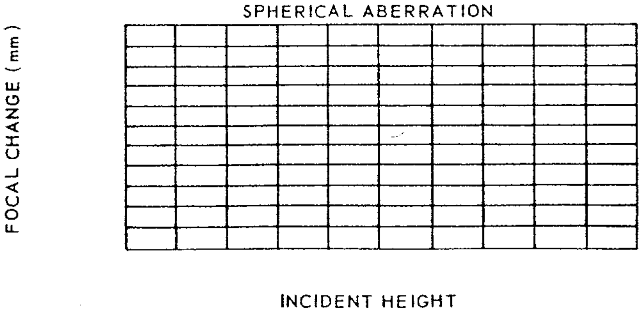












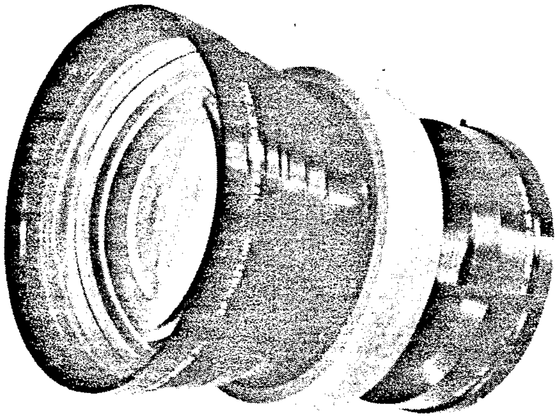
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

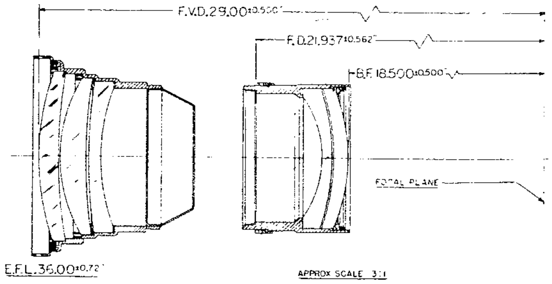
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Telephoto (Baker)

FOCAL LENGTH 36 in.	RELATIVE APERTURE f/8.0	FORMAT 9 in. x 18 in.	MANUFACTURER Perkin-Elmer Corp.

STOCK NO. Perkin-Elmer P/N 072-003	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 36 in. (914.4 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 18.5 ± .5 in.	COLOR CORRECTION 5461-6563 Å (minus blue)
FRONT VERTEX BACK FOCAL DISTANCE 29 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 21.937 in.	LENS CELL DIAMETER *(Maximum)* 6.5 in.
SEMI-FIELD ANGLE 15°	OVERALL LENGTH 10.5 in.
RELATIVE APERTURE f/8.0	WEIGHT 9.95 lb

REMARKS:

Used on the following aircraft cameras: K-38, KA-1, CA-13, KA-27A

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
36 in.	f/8.0	9 in. x 18 in.	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0		2.5		5		7.5		10		12.5		15					

FILM Aero Super XX TARGET CONTRAST High FILTER W-12

AVERAGE RADIAL AND TANGENTIAL	50		46		44		38		34		34		18					

AWAR 37 L/mm

FILM ____ TARGET CONTRAST ____ FILTER ____

AVERAGE RADIAL AND TANGENTIAL																		

AWAR ____ L/mm

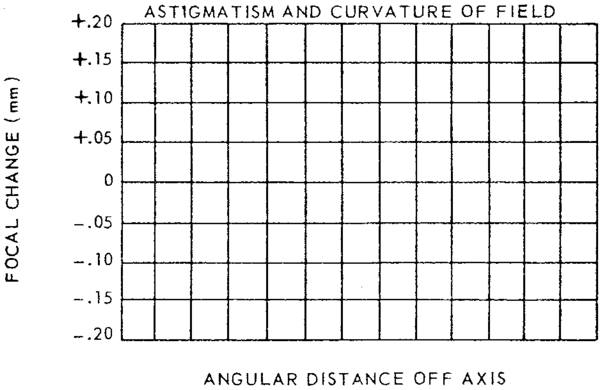
FILM ____ TARGET CONTRAST ____ FILTER ____

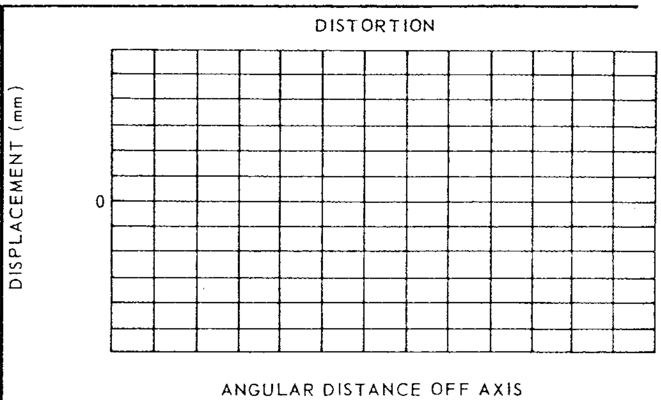
AVERAGE RADIAL AND TANGENTIAL																		

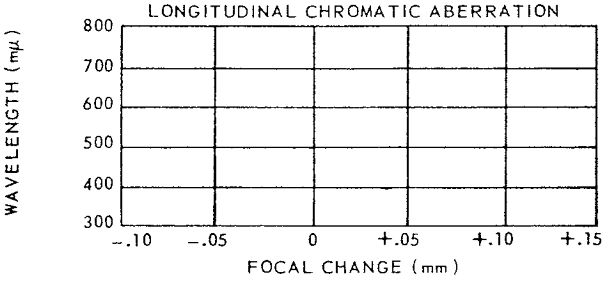
AWAR ____ L/mm

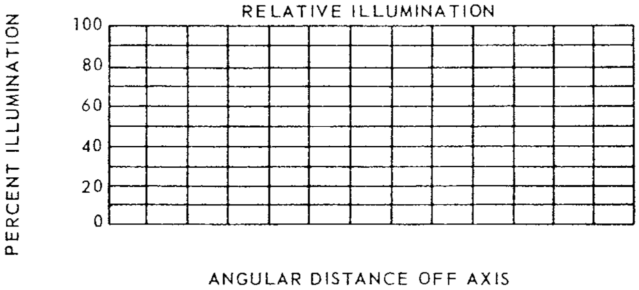
VISUAL ____ TARGET CONTRAST ____ FILTER ____

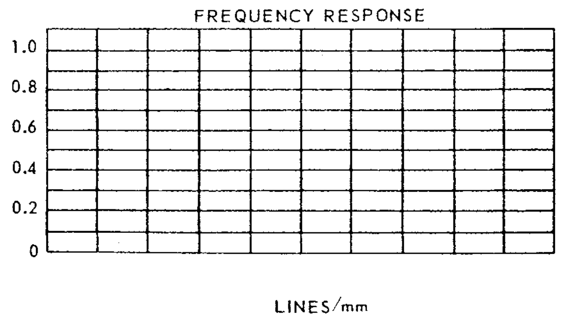
RADIAL																		
TANGENTIAL																		

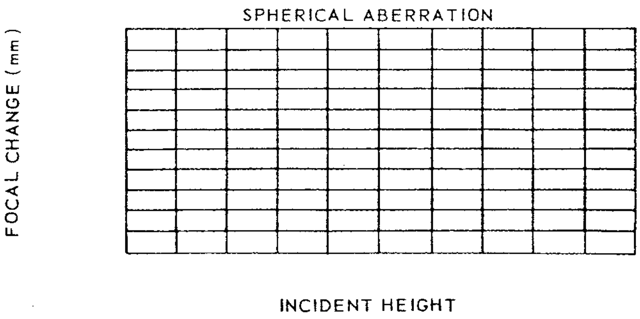

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

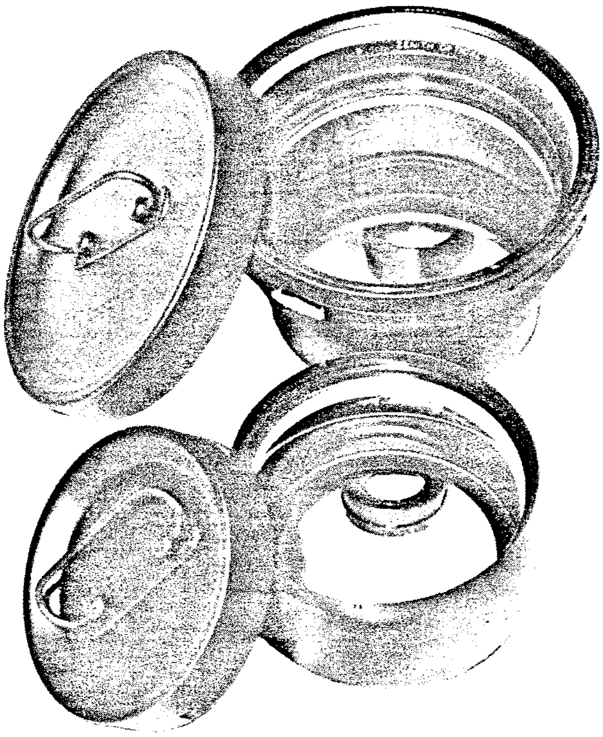
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

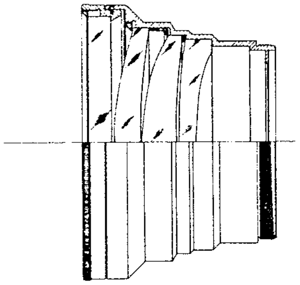
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

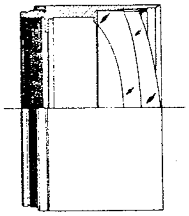
FOCAL LENGTH 36 in.	RELATIVE APERTURE f/8.0	FORMAT 9 in. x 18 in.	MANUFACTURER Zenith Optical Division Polan Industries Inc.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION







CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 36 in. (917 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 18.778 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 29.6775 in.	DISTORTION *(Maximum)* 10.0 mm
FLANGE FOCAL DISTANCE 21.961 in.	LENS CELL DIAMETER *(Maximum)*
SEMI-FIELD ANGLE 15^{o}	OVERALL LENGTH 9.5 in.
RELATIVE APERTURE f/8.0	WEIGHT

REMARKS:

Used on following aircraft cameras: KA-1, K-38, KA-27A

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
36 in.	f/8.0	9 in. x 18 in.	Zenith Optical Div. Polan Industries Inc.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10	12.5	15											

FILM Super XX TARGET CONTRAST High FILTER W-12

RADIAL	34	34	34	38	27	28	27											
TANGENTIAL	38	34	32	30	28	25	21											

AWAR 30 L/mm

FILM TARGET CONTRAST FILTER

RADIAL																		
TANGENTIAL																		

AWAR L/mm

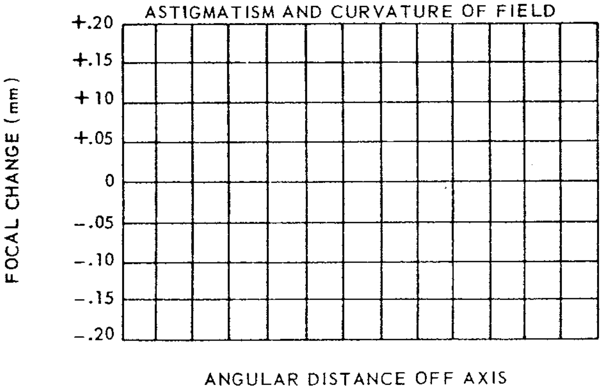
FILM TARGET CONTRAST FILTER

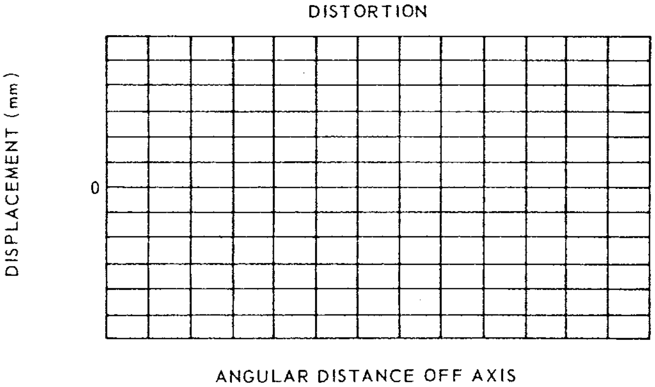
RADIAL																		
TANGENTIAL																		

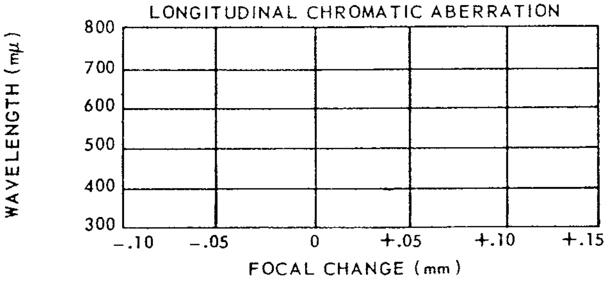
AWAR L/mm

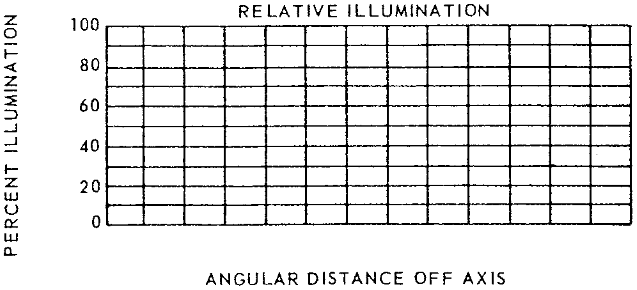
VISUAL TARGET CONTRAST FILTER

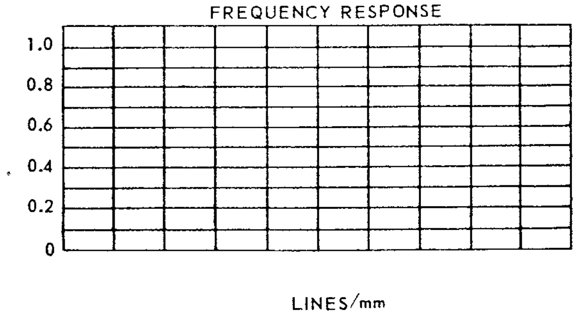
RADIAL																		
TANGENTIAL																		

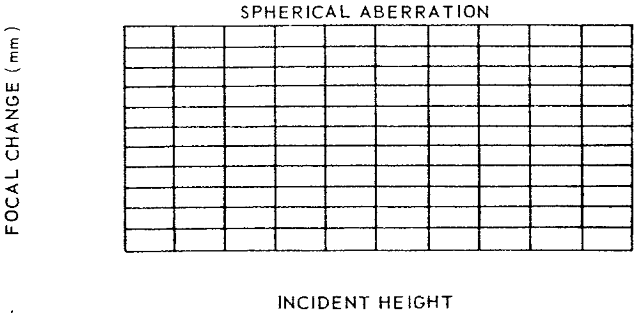












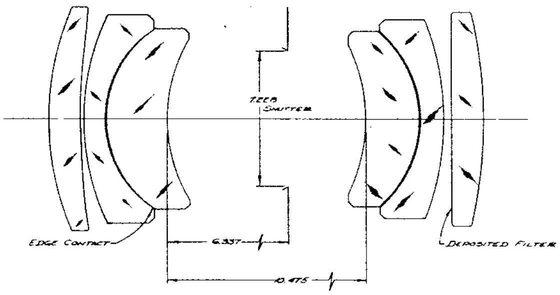
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL–STD–150A) Type I Aerial Reconnaissance	NAME Baker

FOCAL LENGTH 48 in.	RELATIVE APERTURE f/4.5	FORMAT 9 in. x 18 in.	MANUFACTURER American Optical Co.

STOCK NO.	SPECIFICATION NO.	STATUS

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 47.8 in. (1214.12 mm)	TRANSMITTANCE 56%
BACK FOCAL DISTANCE 31.16 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 10.0 in.	LENS CELL DIAMETER *(Maximum)*
SEMI–FIELD ANGLE 12°	OVERALL LENGTH
RELATIVE APERTURE f/4.5	WEIGHT

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
48 in.	f/4.5	9 in. x 18 in.	American Optical Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	12														

FILM Super XX TARGET CONTRAST High FILTER

RADIAL	31	39	23	22														
TANGENTIAL	35	32	14	14														

AWAR 29 L/mm

FILM TARGET CONTRAST FILTER

RADIAL																		
TANGENTIAL																		

AWAR L/mm

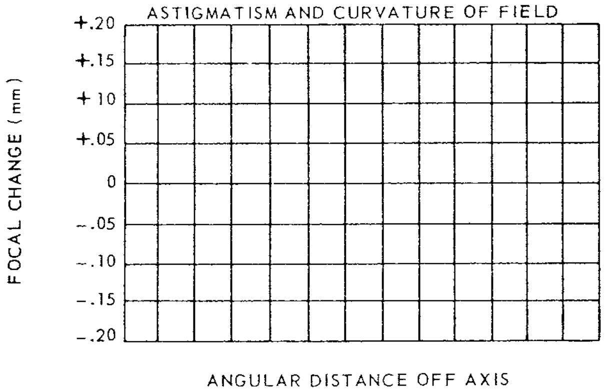
FILM TARGET CONTRAST FILTER

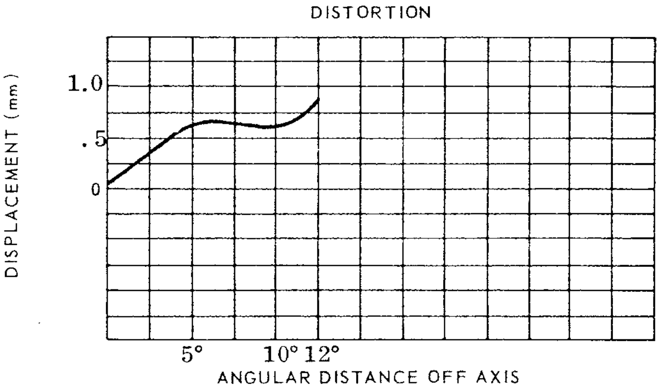
RADIAL																		
TANGENTIAL																		

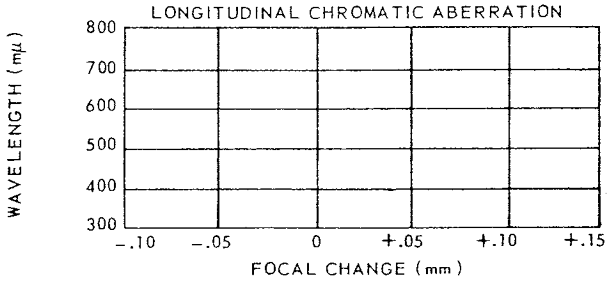
AWAR L/mm

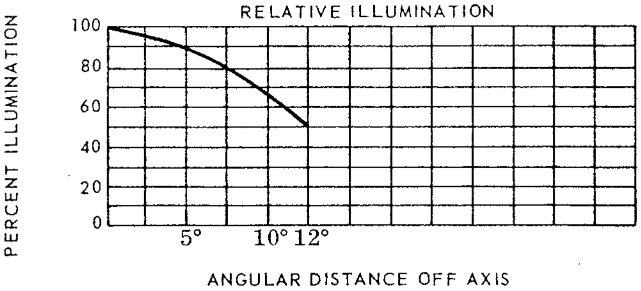
VISUAL TARGET CONTRAST FILTER

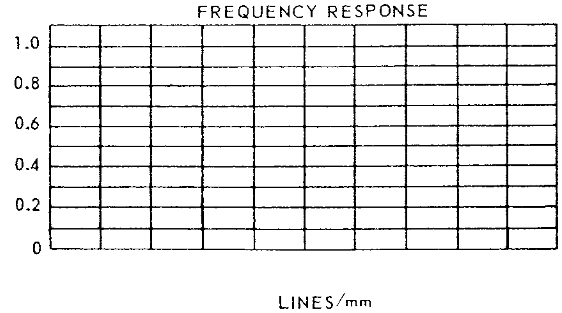
RADIAL																		
TANGENTIAL																		

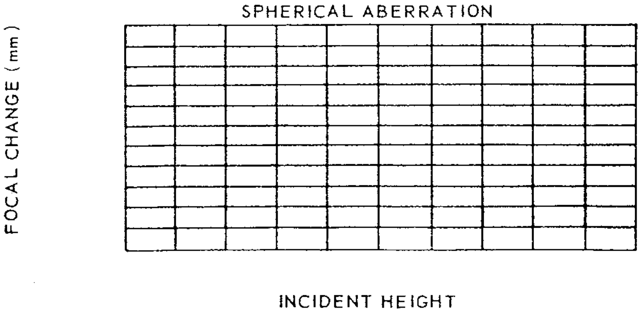

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE

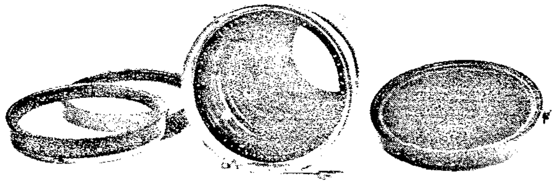

SPHERICAL ABERRATION

LENS DATA INFORMATION SHEET

(Reference MIL–STD–150A for definition of terms and methods of measurement)

DATE 15 Sept. 1967			
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME	
FOCAL LENGTH 48 in.	RELATIVE APERTURE f/6.3	FORMAT 9 in. x 18 in.	MANUFACTURER Eastman Kodak Co.
STOCK NO. Eastman Kodak P/N 800600	SPECIFICATION NO.	STATUS Special Order	

GENERAL DESCRIPTION



CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 48 in. (1219.2 mm)	TRANSMITTANCE
BACK FOCAL DISTANCE 19.0 in. (483.9 mm)	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 40.3 in. (1023.3 mm)	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 31.0 in. (789.4 mm)	LENS CELL DIAMETER *(Maximum)* 10.75 in.
SEMI-FIELD ANGLE 11.5°	OVERALL LENGTH
RELATIVE APERTURE f/6.3	WEIGHT 51.75 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
48 in.	f/6.3	9 in. x 18 in.	Eastman Kodak Co.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	1.25	2.5	3.75	5	6.25	7.5	8.75	10									

FILM Super XX TARGET CONTRAST High FILTER W-12

RADIAL	49	49	49	49	49	38	38	38	48									
TANGENTIAL	49	49	49	39	30	24	24	30	19									

AWAR ____ L/mm

FILM Super XX TARGET CONTRAST High FILTER Red

RADIAL	49	49	49	39	31	38	49	49	38									
TANGENTIAL	49	49	39	31	30	30	30	38	24									

AWAR ____ L/mm

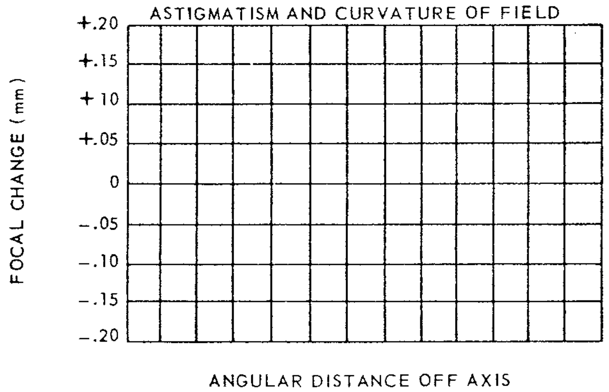
FILM IR TARGET CONTRAST High FILTER IR

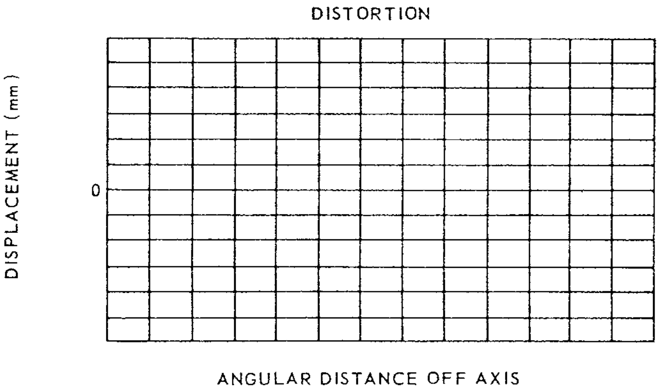
RADIAL	39	49	49	39	31	38	38	39	30									
TANGENTIAL	39	49	39	31	30	30	30	19	15									

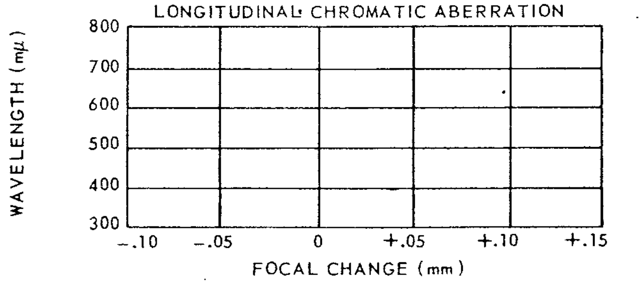
AWAR ____ L/mm

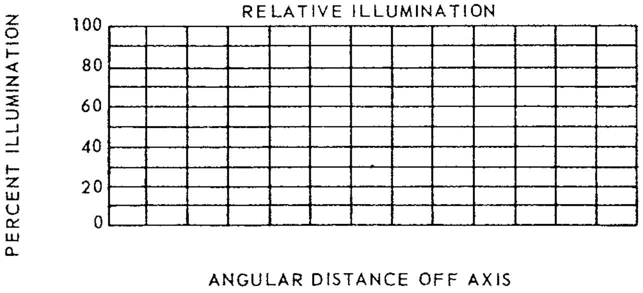
VISUAL ____ TARGET CONTRAST ____ FILTER ____

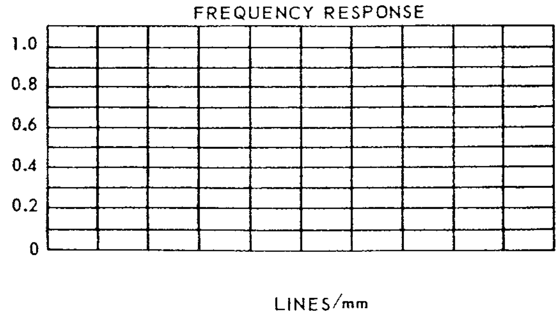
RADIAL																		
TANGENTIAL																		

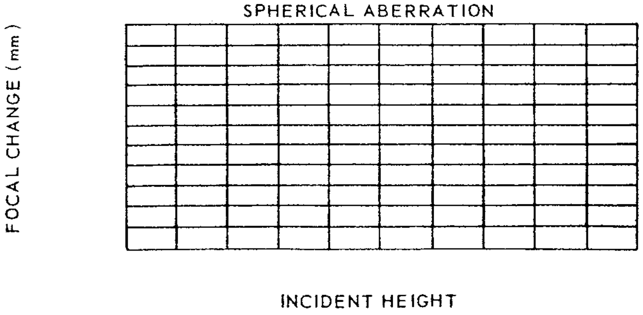












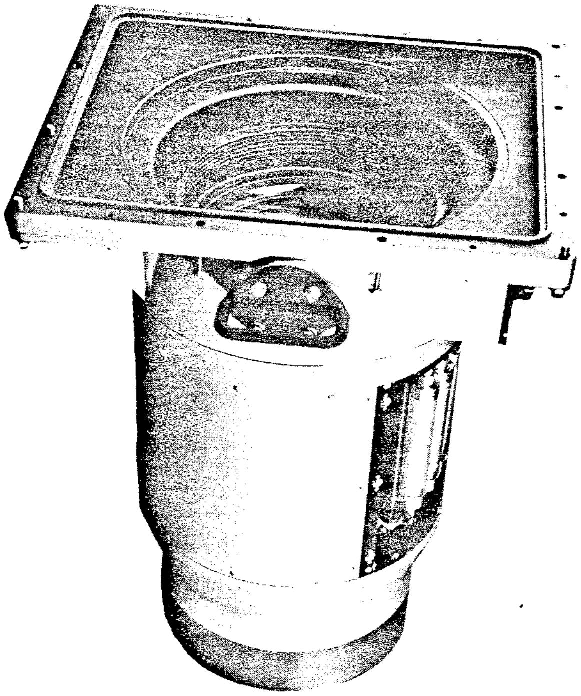
LENS DATA INFORMATION SHEET *(Reference MIL–STD–150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

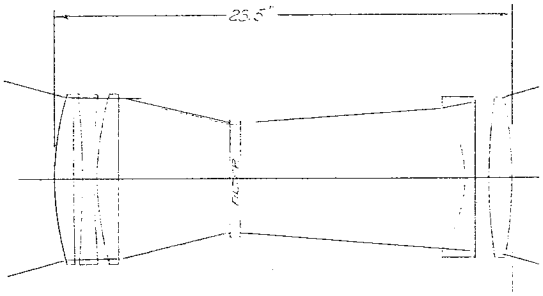
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME Telephoto (Baker)

FOCAL LENGTH 48 in.	RELATIVE APERTURE f/6.3	FORMAT 9 in. x 18 in.	MANUFACTURER Perkin-Elmer Corp.

STOCK NO.	SPECIFICATION NO.	STATUS Development

GENERAL DESCRIPTION





CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 48 in.	TRANSMITTANCE
BACK FOCAL DISTANCE 15.876 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 39.376 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER *(Maximum)* 9.8 in.
SEMI-FIELD ANGLE 12°	OVERALL LENGTH 23.5 in.
RELATIVE APERTURE f/6.3	WEIGHT 181 lbs

REMARKS:

Used on the following aircraft cameras: K-40

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
48 in.	f/6.3	9 in. x 18 in.	Perkin-Elmer Corp.

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10													

FILM V F TARGET CONTRAST High FILTER Red

AVERAGE RADIAL AND TANGENTIAL	64	42	38	34	28													

AWAR 33 L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

AVERAGE RADIAL AND TANGENTIAL																		

AWAR ______ L/mm

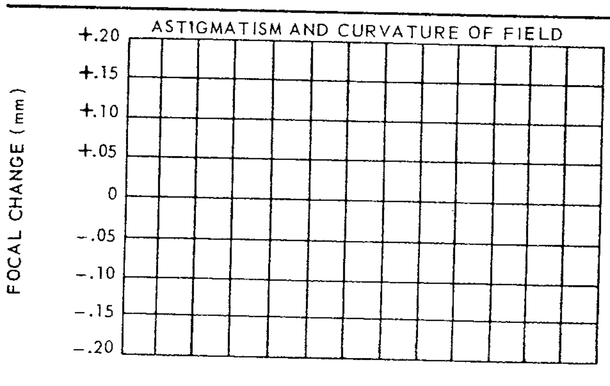
FILM ______ TARGET CONTRAST ______ FILTER ______

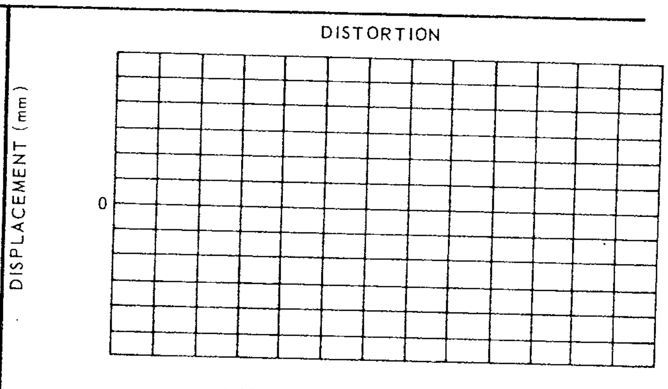
AVERAGE RADIAL AND TANGENTIAL																		

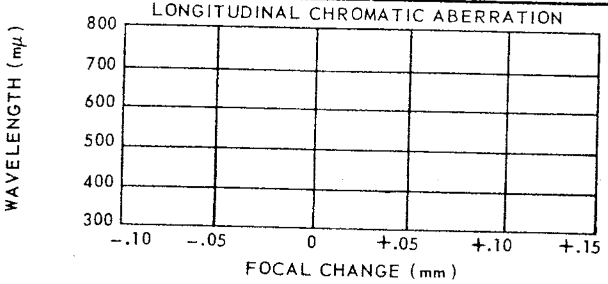
AWAR ______ L/mm

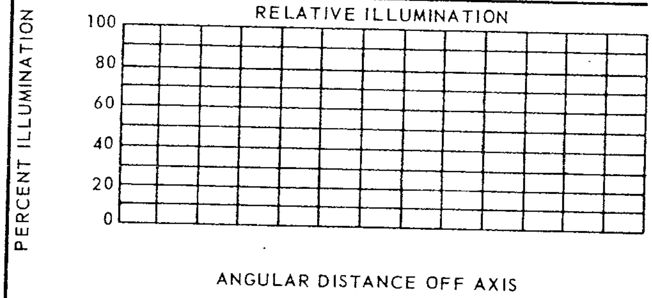
VISUAL ______ TARGET CONTRAST High FILTER Red

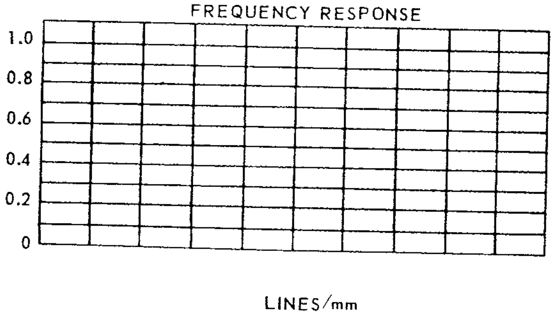
RADIAL	200	180	142	120	100													
TANGENTIAL																		

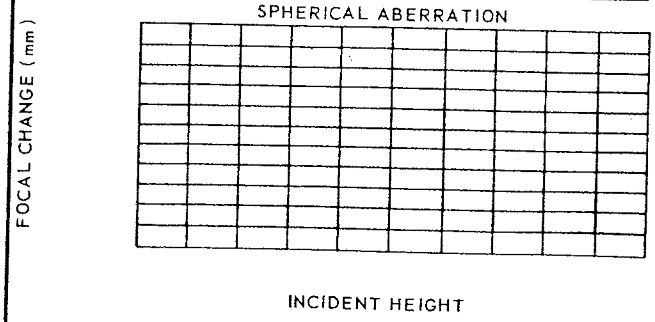

ASTIGMATISM AND CURVATURE OF FIELD


DISTORTION


LONGITUDINAL CHROMATIC ABERRATION


RELATIVE ILLUMINATION


FREQUENCY RESPONSE


SPHERICAL ABERRATION

LENS DATA INFORMATION SHEET *(Reference MIL-STD-150A for definition of terms and methods of measurement)*	DATE 15 Sept. 1967

TYPE (MIL-STD-150A) Type I Aerial Reconnaissance	NAME

FOCAL LENGTH 48 in.	RELATIVE APERTURE f/11.0	FORMAT 9 in. x 18 in.	MANUFACTURER J. G. Baker

STOCK NO.	SPECIFICATION NO.	STATUS Development

GENERAL DESCRIPTION

CHARACTERISTICS

EQUIVALENT FOCAL LENGTH 48.16 in.	TRANSMITTANCE 83.5%
BACK FOCAL DISTANCE 18.81 in.	COLOR CORRECTION
FRONT VERTEX BACK FOCAL DISTANCE 34.90 in.	DISTORTION *(Maximum)*
FLANGE FOCAL DISTANCE 28.43 in.	LENS CELL DIAMETER *(Maximum)*
SEMI-FIELD ANGLE 10°	OVERALL LENGTH
RELATIVE APERTURE f/11.0	WEIGHT 21 lbs

REMARKS:

FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER
48 in.	f/11.0	9 in. x 18 in.	J. G. Baker

Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	7.5	10														

FILM Plus X TARGET CONTRAST High FILTER W-12

RADIAL	52	44	42	40														
TANGENTIAL	45	42	35	36														

AWAR 41 L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

FILM ______ TARGET CONTRAST ______ FILTER ______

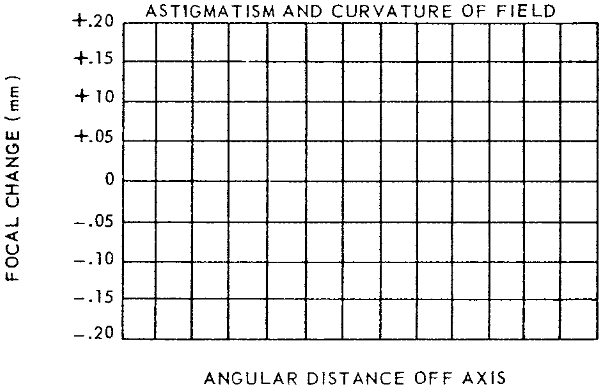
RADIAL																		
TANGENTIAL																		

AWAR ______ L/mm

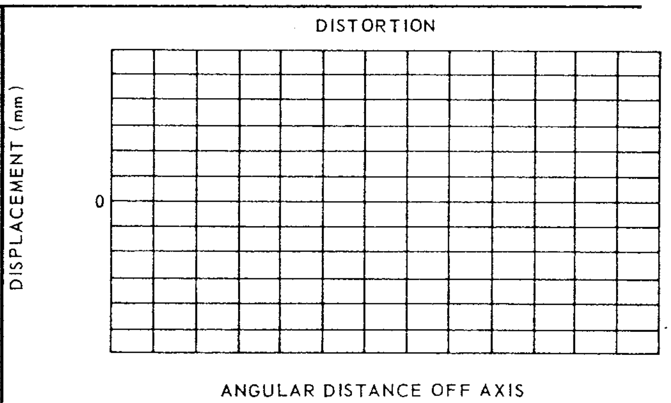
VISUAL ______ TARGET CONTRAST ______ FILTER ______

RADIAL																		
TANGENTIAL																		

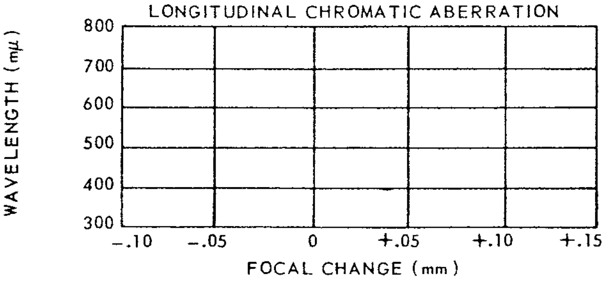
ASTIGMATISM AND CURVATURE OF FIELD



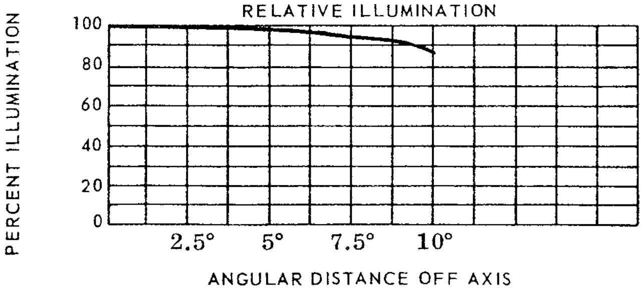
DISTORTION



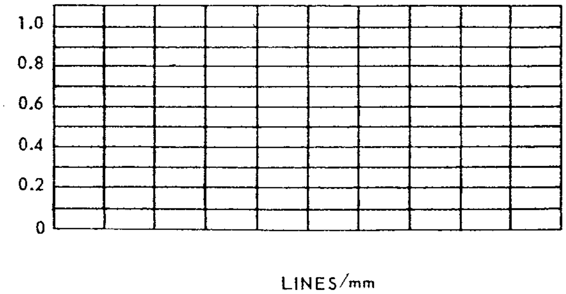
LONGITUDINAL CHROMATIC ABERRATION



RELATIVE ILLUMINATION



FREQUENCY RESPONSE



SPHERICAL ABERRATION